8th Annual SECA Workshop San Antonio, TX – Hyatt Regency



Day One Tuesday, August 7, 2007

7:00-8:00	Registration and Continental Breakfast
8:00- 8:10	Welcome Joseph Strakey, U.S. Department of Energy National Energy Technology Laboratory
8:10-8:50	SECA Overview <i>Wayne Surdoval</i> , U.S. Department of Energy National Energy Technology Laboratory
8:50-9:20	FutureGen Update Joseph Strakey, U.S. Department of Energy National Energy Technology Laboratory
9:20-9:50	SECA Phase I Validation Testing / Coal Gas Impurities Randall Gemmen, U.S. Department of Energy National Energy Technology Laboratory
9:50-10:10	BREAK
10:10-10:40	Panel Discussion / Questions Joe Strakey and Wayne Surdoval, U.S. Department of Energy National Energy Technology Laboratory Gary McVay, Pacific Northwest National Laboratory
10:40-11:25	Gasification Technology Options for SOFC Applications Ronald L. Schoff, Electric Power Research Institute
11:25-12:10	Market Mechanisms for CO ₂ : Issues and Opportunities <i>Michael Moore</i> , CO2 Global LLC.
12:10-1:10	LUNCH

Industry Team Summary

6:00pm	Reception
4:30	ADJOURN
3:30-4:30	Development Update on Delphi's Solid Oxide Fuel Cell Systems <i>Steven Shaffer</i> , Delphi
3:10-3:30	BREAK
2:10-3:10	Cummins Power Generation SECA Phase 1 Review Daniel Norrick, Cummins Power Generation
1:10-2:10	Acumentrics Corporation Norman Bessette, Acumentrics Corporation

Day Two

Wednesday, August 8, 2007

7:00-8:00	Registration and Continental Breakfast
8:00-9:00	SECA Solid Oxide Fuel Cell Program at Fuel Cell Energy <i>Joel Doyon</i> , FuelCell Energy Corporation
9:00-10:00	SECA SOFC Program at GE Global Research Seth Taylor, GE Global Research Center
10:00-10:20	BREAK
10:20-11:20	SECA Program at Siemens Shailesh Vora, Siemens Power Generation
11:20-12:30	LUNCH

SECA Core Technology Program

12:30-12:40	Welcome Prabhakar Singh, Pacific Northwest National Laboratory
12:40-12:50	Introductory Remarks Wayne Surdoval, U.S. Department of Energy National Energy Technology Laboratory
12:50-1:20	Update on SOFC Test Vehicle Development and Implementation Left Stevenson Pacific Northwest National Laboratory

Cell Interconnects -	Allovs	and	Coatings
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(Moderator - Stevenson)

1:20-1:50	Low Cost Bulk Alloy Metallurgy and James Rakowski, Allegheny Ludlum	d Manufacturing
1:50-2:20	Surface Modifications for Oxidation David Alman, U.S. Department of Ene National Energy Technology Laborato	rgy
2:20-2:50	Low-Cr Fe-Ni Alloys as SOFC Inter Performance Evaluation John Zhu, Tennessee Technological U	
2:50-3:10	BREAK	
3:10-3:40	Advanced Interconnect Development Gary Yang, Pacific Northwest National	
Design, Simulation and Reliability (Moderators - Shultz / Khaleel)		
3:40-4:10	Characterization of Anode-Intercon Edgar LaraCurzio, Oak Ridge Nationa	
4:10-4:40	Cell and Stack Modeling Moe Khaleel, Pacific Northwest Natio	nal Laboratory
4:40-5:10	ASME Design Basis Moe Khaleel, Pacific Northwest Natio	nal Laboratory
5:10	ADJOURN	
Day Three Thursday, August 9, 2007		
7:00-8:00	Registration and Continental Break	fast
Electrodes - Performance and Degradation (Moderator - Stevenson)		

8:00- 8:30	Deconvolution of SOFC Cathode Polarization

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8:30- 9:00	Mechanisms Governing Mixed Conducting SOFC Cathodes Stuart Adler, University of Washington
9:00-9:30	Electrode Optimization Studies and Cathode Surface Chemistry <i>Paul Salvador</i> , Carnegie Mellon University

9:30-10:00	Novel and Improved Electrode Structures through Infiltration Steven Visco, Lawrence Berkley National Laboratory
10:00-10:20	BREAK
10:20-10:50	Electrode Contamination Studies Michael Krumpelt, Argonne National Laboratory
10:50-11:20	High Pressure Electrode Studies Larry Pederson, Pacific Northwest National Laboratory
Seals - Materials and Perfor	rmance (Moderators - Shultz / Singh)
11:20-11:50	Innovative Seals for Solid Oxide Fuel Cells (SOFC) Raj Singh, University of Cincinnati
11:50-12:20	High Temperature Glass Seals Matt Chou, Pacific Northwest National Laboratory
12:20-1:20	LUNCH
1:20-1:50	Glass Composite Seals Ronald Loehman, Sandia National Laboratories
Balance of Plant	(Moderators - Quedenfeld / Singh)
1:50-2:20	Power Electronics for Fuel Cell Based Power Generation Systems <i>Allen Hefne</i> r, NIST
2:20-2:50	Advances in Anode and Cathode Blowers Giri Agrawal, R&D Dynamics Corporation
2:50-3:20	Anode and Cathode Blower Systems for SOFC's Mark Johnson, Phoenix Analysis and Design Technologies
3:20-3:40	BREAK
Coal Contaminants	(Moderators - Shultz / Pederson)
3:40-4:10	SOFC Operation in Hydrogen and Coal Gas in the Presence of Phosphorus, Arsenic and Sulfur Impurities Olga Marina, Pacific Northwest National Laboratory
4:10-4:40	Effect of Coal Contaminants on the SOFC Performance Gopala Krishnan, SRI International
4:40-4:45	Concluding Remarks Wayne Surdoval, U. S. Department of Energy National Energy Technology Laboratory